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NOTICE OF ALLOWANCE AND FEE(S) DUE

27389 7590 0430/2010
PARFOMAK, ANDREW N.
NORRIS MCLAUGHLIN & MARCUS PA
875 THIRD AVE, 8TH FLOOR
NEW YORK, NY 10022

EXAMINER					
TAKEUCHI, YOSHITOSHI					
ART UNIT	PAPER NUMBER				
1793					
DATE MAILED: 04/30/2	010				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/599,570	01/31/2007	Stephen Peter Hughes	102881-15 (FF39694/06)	1933		
TITLE OF INVENTION: PROCESS FOR COPPER CONVERTING						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further condicated unless corrected maintenance fee notification	form should be used for correspondence including d below or directed officions.	or trang the	smitting the ISSU Patent, advance of in Block 1, by (a					tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use BI	ock I for	any change of address)	par	ers. Each additiona	d paper	g can only be used for ficate cannot be used for r, such as an assignmen illing or transmission.	domestic mailings of the or any other accompanying or formal drawing, must
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NEW YORK, NY	10022							(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	₹	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/599,570	01/31/2007			Stephen Peter Hughes		1028	81-15 (FF39694/06)	1933
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nonprovisional	YES		\$755	\$300	\$0		\$1055	07/30/2010
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	1			
TAKEUCHI, Y	OSHITOSHI		1793	075-643000	J			
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CFR 1.363).				(1) the names of up to or agents OR, alternat	o 3 registered pater		neys I	
☐ Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached. ☐ 'Fee Address' indication (or 'Fee Address' Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			ation form	(2) the name of a single firm (having as a member a				
3. ASSIGNEE NAME AN								
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	ified b	elow, no assignee of this form is NO	data will appear on the p	patent. If an assign	ee is i	dentified below, the do	cument has been filed for
(A) NAME OF ASSIG		avaion.	or una rorm to 1.10	(B) RESIDENCE: (CIT				
Please check the appropria	ate assignee category or	catego	ories (will not be pr	inted on the patent):	Individual Co	orporat	ion or other private gro	up entity Government
4a. The following fee(s) a	re submitted:		41	o. Payment of Fee(s): (Ple	ase first reapply a	ny pre	viously paid issue fee s	hown above)
				A check is enclosed. Payment by credit ca	rd Form PTO-2038	ie att	ached	
Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity State	us (from status indicates	1 above	2)	overpayment, to Dep	DSIL ACCOUNT NUMBO	31	(enclose at	extra copy of this form).
a. Applicant claims	SMALL ENTITY state	s. See	37 CFR 1.27.	a b. Applicant is no los				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeords of the United Sta	ired) tes Pat	will not be accepte ent and Trademark	d from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N	lo		
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C iality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C USPT den, sl NOT	11. The information of the control o	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 widual case. Any co- er, U.S. Patent and O THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of tin mark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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PARFOMAK, A	NDREW N.	TAKEUCHI, YOSHITOSHI				
NORRIS MCLAUGHLIN & MARCUS PA			ART UNIT	PAPER NUMBER		
875 THIRD AVE,	8TH FLOOR	1703				

DATE MAILED: 04/30/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/599,570 HUGHES ET AL. Notice of Allowability Examiner Art Unit YOSHITOSHI TAKEUCHI 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to February 12, 2010. 2. The allowed claim(s) is/are 1 and 3-14. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

Other .

Supervisory Patent Examiner, Art Unit 1793

/ Roy King/

of Biological Material

/YOSHITOSHI TAKEUCHI/

Examiner, Art Unit 1793

Application/Control Number: 10/599,570 Page 2

Art Unit: 1793

DETAILED ACTION

Claims 1, 3-14 are presented for examination, wherein claim 1 is currently amended.
 Claims 2 and 15 are cancelled.

The 35 U.S.C. § 112 second paragraph and the 35 U.S.C. § 103(a) rejections of claims 1
and 3-14 are withdrawn as a result of the applicants' amendment to claim 1, from which the
other claims depend.

Allowable Subject Matter

Claims 1 and 3-14 are allowed.

4. The following is an examiner's statement of reasons for allowance: none of the art of record teaches the process of claim 1 wherein (1) the slag phase is an iron based silicate slag phase and (2) the oxidizing gas phase is injected through a top-submerged lance, is unable to pass through a lower surface of the slag phase, and is precluded from contacting the continuous copper phase.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSHITOSHI TAKEUCHI whose telephone number is (571) 270-5828. The examiner can normally be reached on Monday-Thursday 9:30-3:00. Art Unit: 1793

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ Roy King/ Supervisory Patent Examiner, Art Unit 1793

/YOSHITOSHI TAKEUCHI/ Examiner, Art Unit 1793